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CHICKEN MEAT PRODUCTION TESTS

Canada and the United States

Report for the period

1961-62

Agricultural Research Service
U.S. DEPARTMENT OF AGRICULTURE

CHICKEN MEAT PRODUCTION TESTS AND SUPERVISORS

Arkansas Meat Performance Test, Fayetteville

(Supervisor: L. T. Lankford, Box 391, Little Rock)

British Columbia Random Sample Broiler Test, Abbotsford

(Supervisor: W. H. Pope, B. C. Department of Agriculture, Victoria)

Central Canadian Meat Test

(Supervisor: M. S. Mitchell, Poultry Division, Dept. of Agriculture, Ottawa, Ontario)

Maine Production and Broiler Test, Monmouth

(Supervisor: Francis G. Buzzell, Maine Department of Agriculture, Augusta)

New Hampshire Broiler Test

(Supervisor: W. C. Skoglund, University of New Hampshire, Durham)

FOREWORD

This report includes performance records of chicken meat production test entries representing 48 commercially available stocks and 52 experimental stocks that were entered in the various tests. A complete listing of the commercial stocks and the tests in which they were represented is shown on pages 4 and 5 of this report.

Variations in the procedures followed by the different tests make it difficult to present the results so that the records reported by one test may be compared directly with those from another test. Some of the variations which should be considered in the comparison of results are described in the following summary of test procedures.

SUMMARY OF OPERATING PROCEDURES AT EACH TEST

Arkansas Meat Performance Test

Egg Phase - The egg phase test was started on September 13, 1961, when the pullets were 24 weeks of age, and completed on June 11, 1962, giving a test period of 272 days. These pullets were brought to the test station in the form of two cases of eggs taken as a random sample by an official agent of the National Poultry Improvement Plan in the State in which the entrant was located. These eggs were received and randomized in the incubator at the test station. The baby chicks were sexed in the hatchery and the pullets were brooded and ranged on the same feed and under the same management procedure. The birds were vaccinated against Newcastle, infectious bronchitis and fowl pox according to standard commercial procedure. Each entry was represented by 100 pullets housed in two duplicate pens of 50 pullets each. One pen was taken at random on the south side of the building and the other was allocated at random on the north side, in the opposite half of the house from where the south pen was located. In this procedure of limited randomization each entry was represented in the north, south, east and west portions of the building. Each pullet had 3.5 square feet of floor space.

Progency Performance Phase - The broiler stock entered in Test 6-A and 6-B originated from eggs produced by the breeding stock in the Egg Phase Test. Two cases of eggs from each stock were incubated for each test. For each test, each entry consisted of 126 males divided into two pens and 126 females divided the same way, with 0.95 square foot of floor space available for each bird. The chicks were vaccinated intraocularly against Newcastle and infectious bronchitis at 10 days of age. At seven weeks of age, each bird was weighed and the average weight determined. A random sample of 25 cockrels and 25 pullets was taken from each of the two duplicate pens for each entry. These 50 birds from each entry were sent to the processing plant where the eviscerated data were taken.

Performance Test Nos. 21 and 22 - These two tests were conducted in much the same manner as Test 6-A and 6-B except that the eggs to produce the chicks were sampled from the entrant's farm.

British Columbia Random Sample Broiler Test

The British Columbia Random Sample Broiler Test was conducted for a period of nine weeks. The test was designed not only to determine differences in stock performance but also to test stock performance when two different feed formulas were used. A total of 800 chicks were tested for each entry, with 200 chicks of each sex being tested on each feed formula. Ration WP contained additional supplemental vitamins over those found in Ration YM. With the additional cost of \$3.00 per ton of Ration WP over Ration YM, it was found that the average feed cost per pound of live weight produced was 11.09 cents for Ration WP and 10.80 cents for Ration YM.

Central Canada Meat Test

The sample of 360 eggs to hatch the commercial entries was taken at random from the entrants breeding flocks. All eggs were incubated at the Central Test Station. A maximum of 120 pullet chicks and 120 cockerel chicks were started for each entry in the 11th and 12th tests. The sexes were raised separately and a complete record was maintained on feed consumption and mortality. The birds were individually weighed at 8 weeks of age and bulk weighed by pens at 9 weeks of age. In the 12th test, the pullets were marketed at 9 weeks, while the males were retained on test to complete a record through to roaster size.

Maine Production and Broiler Test

The Maine Production and Broiler Test consists of two phases: The egg production, fertility and hatchability of the parental stock phase, and the meat producing ability of the progeny phase. Each entry of the parent stock consisted of 50 pullets and five cockerels. A sufficient number of eggs to produce 90 broiler chicks (45 of each sex) were sampled four times during the production year from each entry of parent stock. Chicks from three of these hatches were grown to 8 weeks of age and cockerels from the fourth hatch were grown to 12 weeks of age. The performance data reported in this publication are for the parental stock as well as the average performance of the broilers in the three 8-week trials.

New Hampshire Broiler Test

Each of the two tests conducted annually in New Hampshire consist of two trials. Each trial consists of two pens of 140 birds for each entry. Thus the averages for each entry reported for each test represent the performance of 560 birds. The broilers were weighed at 8 weeks of age and again at 9 weeks of age, at which time they were processed.

In Test I, the first Trial was started on April 17, 1962 and the second Trial July 17, 1962. Trial I of Test II was started on October 9, 1962 and Trial II on January 8, 1963.

Information in this report was compiled by the Poultry Research Branch, Animal Husbandry Research Division, Agricultural Research Service, from data supplied by the Test Supervisors and the Council of American Official Poultry Tests. The publication of this report should not be construed as implying approval or endorsement by the U. S. Department of Agriculture of any of the stocks tested.

STOCKS ENTERED IN 1961-62 MEAT PRODUCTION TESTS
(Experimental Stocks not Included)

STOCKS	TESTS ENTERED										
	Arkansas No. 6	Arkansas No. 6-A	Arkansas No. 6-B	Arkansas No. 21	Arkansas No. 22	British Columbia No. 8	Central Canadian No. 11	Central Canadian No. 12	Maine No. 16	New Hampshire No. I	New Hampshire No. II
Arbee x Cobb WPR	X	X	X	X			X			X	
Athens-Canadian Random Breds *						X					
Bray #2 WPR						X					
Bray 99 x Bray #2 WPR											
Bray B92 x Bray WPR											
Bray 4449 x Bray WPR											
Brown x Cobb WPR	X	X	X	X	X			X	X	X	X
Brown x Lambright	X	X	X						X		
Brown x Nichols 108								X	X		
Brown x Pilch WPR	X	X	X	X	X				X		
Brown x J. N. Thompson WPR	X	X		X	X	X	X	X	X	X	X
Cobbs WPR Strain Cross										X	X
Coll WPR										X	X
Garrison Cornish Cross										X	X
Hubbard White Mt. x Cobb WPR											
Hubbard White Mt. x Hubbard #39	X	X	X						X	X	X
Hubbard White Mt. x Hubbard 663									X	X	X
Hubbard White Mt. x Pilch WPR									X	X	X
Indian River x Pilch WPR							X				
Indian River #4 x Bray WPR									X		
Moore Chesty x Pilch WPR				X							
Nichols 909 x Nichols 108				X	X						X
Nichols 909 x Nichols 205											
Ottawa Meat Controls **						X	X	X			
Peel Cornish x Peel 132A											
Peel 799 x Peel 132A											
Penobscot M #1 x Arbor Acres #50									X	X	X
Penobscot M #1 x Penobscot #31									X	X	X
Peterson x Arbor Acres #50					X						
Peterson x Bray WPR							X				

* A sub-sample of Ottawa Meat Controls maintained separately since 1958.

*** See Athens-Canadian Random Bred.

STOCKS ENTERED IN 1961-62 MEAT PRODUCTION TESTS - Continued
(Experimental Stocks not Included)

STOCKS	TESTS ENTERED										
	Arkansas No. 6	Arkansas No. 6-A	Arkansas No. 6-B	Arkansas No. 21	Arkansas No. 22	British Columbia No. 8	Central Canadian No. 11	Central Canadian No. 12	Maine No. 16	New Hampshire No. I	New Hampshire No. II
Peterson x Cobb WPR	X	X	X		X						
Peterson x Dixie					X						
Peterson x Nichols 108	X	X	X		X				X		
Peterson x Pilch WPR	X	X	X		X				X		
Peterson x A. W. Thompson WPR	X	X	X		X						
Peterson x Thompson NT 777	X	X									
Seiling 200 x Seiling WPR								X			
Seiling 400 x Seiling WPR								X			
Thompson, J. N., WPR					X						
University of Arkansas, HiLo	X	X	X								
University of Arkansas Cornish				X							
Vantress x Arbor Acres WPR									X	X	
Vantress x Arbor Acres #50						X			X		
Vantress x Hubbard #39	X	X	X				X		X		
Vantress x Nichols 108	X	X	X						X	X	
Vantress x Pilch WPR	X	X	X				X		X		
Vantress x A. W. Thompson Inbred Cross											
Vantress x J. N. Thompson WPR					X						
					X						

ARKANSAS MEAT PERFORMANCE TEST No. 6 - EGG PHASE

AVERAGE PERFORMANCE OF FEMALE LINES

ENTRANT	BREEDS	Egg Production		Livability per Hen Housed (%)	Feed per Doz. Eggs Produced (lbs.)	Age at 50% Production (days)	Average Body Wt. at 24 Wks. (lbs.)	Average Wt. per dozen eggs	
		Per Hen Housed (%)	Per Hen Day (%)					Fall (oz.)	Spring (oz.)
Cobb's, Massachusetts and Brown's, Arkansas	Cobb's WPR	42.8	44.1	93.0	8.6	213	6.7	26.5	27.2
Cobb's, Massachusetts and Peterson, Arkansas	Cobb's WPR	45.9	47.1	94.0	8.5	217	6.6	26.7	28.0
Hubbard, New Hampshire	Hubbard #39	47.5	49.7	92.0	8.6	198	7.0	26.0	26.9
Hubbard, New Hampshire	Hubbard #39	41.2	45.7	80.0	9.6	203	6.7	25.8	26.9
Lambright, Indiana	Lambright White Meator	44.9	46.3	94.0	8.7	230	5.9	26.0	26.9
Nichols, Connecticut	Nichols 108	52.0	52.2	98.0	8.2	199	6.6	26.0	27.2
Nichols, Connecticut and Peterson, Arkansas	Nichols, 108	46.8	47.4	97.0	8.8	201	6.4	26.0	27.5
Pilch's, Connecticut	Pilch's WPR	40.9	42.6	92.0	9.0	241	6.3	25.3	26.7
Pilch's, Connecticut	Pilch's WPR	40.1	41.2	96.0	9.7	235	6.2	25.3	26.7
Pilch's, Connecticut	Pilch's WPR	44.2	44.6	96.0	9.0	230	6.0	25.3	26.4
Thompson's, Georgia and Peterson, Arkansas	Thompson's NT 777	49.4	51.7	90.0	7.7	193	6.1	24.5	26.1
Thompson's, Georgia and Peterson, Arkansas	Thompson's WPR	49.3	50.6	96.0	8.0	187	6.3	25.0	26.1
Thompson, Arkansas and Brown's, Arkansas	Thompson WPR	39.6	41.2	92.0	9.9	217	6.6	26.2	27.7
AVERAGE FOR COMMERCIAL ENTRIES:		45.0	46.5	93.1	8.8	213	6.4	25.7	26.9
EXPERIMENTAL ENTRIES:									
University of Arkansas, Arkansas	University HiLo	35.0	36.3	89.0	10.1	239	5.6	26.0	27.7
University of Arkansas, Arkansas	Athens-Canadian Random Bred	50.2	51.9	94.0	7.0	193	5.1	----	24.5
AVERAGE FOR EXPERIMENTAL ENTRIES:		42.6	44.1	91.5	8.5	216	5.4	26.0	26.1

ARKANSAS MEAT PERFORMANCE TEST - No. 6-A
January 17, 1962 to March 7, 1962

ENTRANT	BREEDS	Viability to 7 Wks. (%)	Lbs. Feed per Lb. Live Wt. (lbs.)	Average Live Weight at 7 Weeks		Average Eviscerated Yield	
				Male (lbs.)	Female (lbs.)	Male (%)	Female (%)
Cobb's, Massachusetts and Brown's, Arkansas	Brown's LedBrest x Cobb's WPR	100.0	1.92	3.25	2.64	67.7	68.3
Cobb's, Massachusetts and Peterson, Arkansas	Peterson x Cobb's WPR	98.0	1.94	3.10	2.55	68.4	67.7
Hubbard, New Hampshire	White Mountain x Hubbard #39	96.4	1.91	3.09	2.54	67.6	66.3
Hubbard, New Hampshire	Vantress DWML x Hubbard #39	95.6	1.89	3.12	2.60	67.5	68.0
Lambright, Indiana	Brown's LedBrest x White Meateor	100.0	1.91	2.78	2.35	67.4	67.8
Nichols, Connecticut	Vantress DWML x Nichols 108	97.6	1.82	3.00	2.47	66.7	66.9
Nichols, Connecticut	Peterson x Nichols 108	98.8	1.90	2.91	2.44	67.3	67.1
Pilch's, Connecticut	Brown's LedBrest x Pilch's WPR	98.0	1.92	3.02	2.47	66.9	67.5
Pilch's, Connecticut	Peterson x Pilch's WPR	98.8	1.94	3.10	2.50	67.9	68.2
Pilch's, Connecticut	Vantress DWML x Pilch's WPR	99.2	1.92	3.20	2.53	68.5	67.6
Thompson's, Georgia and Peterson, Arkansas	Peterson x Thompson's NT 777	99.2	1.91	2.98	2.46	67.4	68.0
Thompson's, Georgia and Peterson, Arkansas	Peterson x Thompson's WPR	99.2	1.84	3.03	2.49	67.7	68.6
Thompson, Arkansas and Brown's, Arkansas	Brown's LedBrest x Thompson WPR	99.6	1.96	3.19	2.58	67.4	67.2
AVERAGE FOR COMMERCIAL ENTRIES:		98.5	1.91	3.06	2.51	----	67.6
EXPERIMENTAL ENTRIES:							
University of Arkansas Arkansas	University HiLo	98.4	2.01	2.51	2.12	65.5	65.5
University of Arkansas Arkansas	Athens-Canadian Random Dred	99.6	2.06	1.96	1.72	67.5	68.1
AVERAGE FOR EXPERIMENTAL ENTRIES:		99.0	2.04	2.23	1.92	----	66.8

ARKANSAS MEAT PERFORMANCE TEST - No. 6-B
June 13, 1962 to August 1, 1962

ENTRANT	BREEDS	Viability to 7 Wks. (%)	Lbs. Feed per Lb. Live Wt. (lbs.)	Average Live Weight at 7 Weeks		Average Eviscerated Yield	
				Male (lbs.)	Female (lbs.)	Male (%)	Female (%)
Cobb's, Massachusetts and Brown's, Arkansas	Brown's LedBrest x Cobb's WPR	98.0	2.07	2.98	2.45	66.4	66.9
Cobb's, Massachusetts and Peterson, Arkansas	Peterson x Cobb's WPR	98.0	2.02	3.03	2.49	66.4	66.8
Hubbard, New Hampshire	White Mountain x Hubbard #39	95.2	2.00	3.03	2.48	65.7	62.5
Hubbard, New Hampshire	Vantress DWML x Hubbard #39	96.4	2.07	2.85	2.38	65.8	66.2
Lambright, Indiana	Brown's LedBrest x White Meateor	97.2	2.09	2.64	2.16	66.7	66.2
Nichols, Connecticut	Vantress DWML x Nichols 108	100.0	2.07	2.95	2.41	66.3	65.2
Nichols, Connecticut	Peterson x Nichols 108	98.4	2.05	2.88	2.35	65.4	65.5
Pilch's, Connecticut	Brown's LedBrest x Pilch's WPR	98.4	2.05	2.85	2.34	65.8	65.5
Pilch's, Connecticut	Peterson x Pilch's WPR	97.6	2.11	2.91	2.39	66.0	66.1
Pilch's, Connecticut	Vantress DWML x Pilch's WPR	98.0	2.09	2.93	2.39	65.5	64.7
Thompson's, Georgia and Peterson, Arkansas	Peterson x Thompson's NT 777	99.6	2.07	2.89	2.39	66.4	67.8
Thompson's, Georgia and Peterson, Arkansas	Peterson x Thompson's WPR	98.0	2.07	2.81	2.27	66.9	67.5
Thompson, Arkansas and Brown's, Arkansas	Brown's LedBrest x Thompson WPR	97.2	2.12	2.96	2.40	67.1	66.5
AVERAGE FOR COMMERCIAL ENTRIES:		97.8	2.07	2.90	2.38	-----	-----
EXPERIMENTAL ENTRIES:							
University of Arkansas, Arkansas	University HiLo	97.6	2.23	2.82	2.30	66.5	65.6
University of Arkansas, Arkansas	Athens-Canadian Random Bred	97.2	2.21	2.02	1.66	66.5	66.2
AVERAGE FOR EXPERIMENTAL ENTRIES:		97.4	2.22	2.42	1.98	-----	-----

ARKANSAS MEAT PERFORMANCE TEST - No. 21
August 21, 1962 to October 10, 1962

ENTRANT	BREEDS	Viability to 7 Wks. (%)	Lbs. Feed per Lb. Live Wt. (lbs.)	Average Live Weight at 7 Weeks		Grade of Carcass		
				Male (lbs.)	Female (lbs.)	Both Sexes (lbs.)	Fleshing & Finish A+	Feathering A
Cobb's, Massachusetts	Cobb's Strain							
Cobb's, Massachusetts and Brown's, Arkansas	Cross	96.0	2.07	3.26	2.57	2.94	25.0	100.0
Nichols, Maine	Brown's LedBrest x Cobb's WPR	99.2	2.03	3.20	2.58	2.88	48.0	100.0
Pilch's, Connecticut and Brown's, Arkansas	Nichols 909 x Nichols 108	97.2	1.99	3.39	2.85	3.14	49.0	100.0
Pilch's, Connecticut and Moore, Pennsylvania	Brown's LedBrest x Pilch's WPR	99.2	2.04	3.22	2.63	2.92	47.0	100.0
	Moore Chesty x Pilch's WPR	98.8	2.00	3.10	2.53	2.81	32.0	100.0
		98.1	2.03	3.23	2.63	2.93	40.0	100.0
AVERAGE FOR COMMERCIAL ENTRIES:								
EXPERIMENTAL ENTRIES:								
Peterson, Arkansas	Peterson Experimental	98.0	2.01	3.19	2.61	2.90	53.0	100.0
University of Arkansas, Arkansas	University White Cornish	96.0	1.98	2.68	2.21	2.44	46.0	100.0
University of Arkansas, Arkansas	Athens-Canadian Random Bred	96.0	2.17	1.96	1.68	1.81	19.0	100.0
	AVERAGE FOR EXPERIMENTAL ENTRIES:	96.7	2.03	2.61	2.17	2.39	59.0	100.0

ARKANSAS MEAT PERFORMANCE TEST - No. 22
November 13, 1962 to January 2, 1963

ENTRANT	BREEDS	Viability to 7 Wks. (%)	Lbs. Feed per Lb. Live Wt. (lbs.)	Average Live Weight at 7 Weeks		Grade of Carcass		
				Male (lbs.)	Female (lbs.)	Both Sexes (lbs.)	Fleshing & Finish A+	Feathering A
Brown's, Arkansas	Brown's LedBrest x Cobb's WPR	97.2	1.96	3.46	2.83	3.15	68.0	32.0
Brown's, Arkansas	Brown's LedBrest x Pilch's WPR	99.2	1.99	3.45	2.74	3.10	47.0	53.0
Cobb's, Massachusetts	Cobb's WPR	98.0	2.01	3.59	2.78	3.18	34.0	66.0
Nichols, Maine	Nichols 909 x Nichols 108	98.8	1.87	3.72	2.99	3.38	35.0	65.0
Peterson, Arkansas and Arbor Acres, Connecticut	Peterson x Arbor Acres #50	98.0	2.00	3.28	2.63	2.95	50.0	50.0
Peterson, Arkansas and Cobb's, Massachusetts	Peterson x Cobb's WPR	97.6	1.96	3.49	2.78	3.14	46.0	54.0
Peterson, Arkansas and Green Hill, Louisiana	Peterson x Dixie	97.6	2.02	3.11	2.57	2.85	48.0	52.0
Thompson's, Georgia	Vantress x Thompson's Inbred Cross	98.8	2.03	3.22	2.62	2.93	43.0	57.0
Thompson, Arkansas	J. N. Thompson WPR	98.0	2.01	3.63	2.76	3.21	43.0	57.0
Thompson, Arkansas	Vantress x J. N. Thompson WPR	98.0	1.95	3.62	2.74	3.18	65.0	35.0
Thompson, Arkansas and Joe Ray Co., Arkansas	Brown's LedBrest x J. N. Thompson WPR	97.2	1.98	3.55	2.78	3.16	51.0	49.0
AVERAGE FOR COMMERCIAL ENTRIES:		98.0	1.98	3.46	2.75	3.11	48.0	52.0
EXPERIMENTAL ENTRIES:								
Peterson, Arkansas	Peterson Experimental	98.0	1.92	3.61	2.78	3.19	45.0	55.0
Thompson's, Georgia	Inbred Cross x Experimental Inbred	100.0	1.99	3.23	2.56	2.92	38.0	62.0
AVERAGE FOR EXPERIMENTAL ENTRIES:		99.0	1.96	3.42	2.67	3.05	42.0	58.0

EIGHTH BRITISH COLUMBIA RANDOM SAMPLE BROILER TEST
December 29, 1961 to March 2, 1962

ENTRANT	BREEDS	Livability (%)	8 Week Weight			9 Week Weight			9 Week Feed Conv. (lbs.)	Calculated Feed Conv. at 3 Lbs.* (lbs.)	Grade A M & F (%)	Eviscerated Yield M & F*** (%)
			Male		Combined (lbs.)	Female		Combined (lbs.)				
			(lbs.)	(lbs.)		(lbs.)	(lbs.)					
FEED FORMULA - WP												
Bray, Ontario Bray, Ontario Peel's, Ontario Pacific Hatchery, British Columbia Centennial Hatchery, British Columbia	Bray 99 x Bray #2 WPR	96.5	3.77	3.05	3.41	4.34	3.41	3.88	2.36	2.11	73.4	68.8
	Bray B 92 x Bray WPR	99.2	3.82	3.00	3.41	4.30	3.34	3.82	2.41	2.12	77.5	69.5
	Peel's Cornish x Peel's #132A	94.0	3.95	3.23	3.59	4.52	3.59	4.06	2.38	2.08	70.7	70.8
	Vantress x Arbor Acres #50	97.8	3.77	3.10	3.44	4.27	3.41	3.84	2.38	2.11	80.8	70.9
	Cobb's WPR	97.2	4.00	3.18	3.59	4.61	3.53	4.07	2.42	2.06	75.4	70.0
	AVERAGE:	97.5	3.86	3.11	3.49	4.41	3.46	3.93	2.39	2.10	75.6	70.0

FEED FORMULA - YM

Bray, Ontario Bray, Ontario Peel's, Ontario Pacific Hatchery, British Columbia Centennial Hatchery, British Columbia	Bray 99 x Bray #2 WPR	98.2	3.98	3.03	3.50	4.51	3.44	3.98	2.34	2.12	67.8	70.1
	Bray B 92 x Bray WPR	98.2	3.85	2.99	3.42	4.42	3.37	3.90	2.39	2.14	69.2	69.7
	Peel's Cornish x Peel's #132A	96.5	3.98	3.14	3.56	4.54	3.57	4.06	2.40	2.10	70.5	71.1
	Vantress x Arbor Acres #50	96.2	3.85	3.02	3.44	4.37	3.40	3.89	2.39	2.14	73.9	69.5
	Cobb's WPR	95.2	4.11	3.14	3.62	4.61	3.56	4.08	2.40	2.10	76.7	70.0
	AVERAGE:	96.9	3.95	3.06	3.51	4.49	3.47	3.98	2.38	2.12	71.6	70.1

* The calculated figure represents the pounds of feed required to produce each pound of live weight when the birds weighed 3 pounds.

*** Excluding Giblets.

ELEVENTH CENTRAL CANADIAN MEAT TEST - 1962

ENTRANT	BREEDS	Mortality		Feed Conversion *			Body Weight		Grade
		8 Wks.	9 Wks.	8 Wks.	9 Wks.	Calculated to 3 Lbs.	8 Weeks	9 Weeks	
		(%)	(%)	(lbs.)	(lbs.)	(lbs.)	Male (lbs.)	Female (lbs.)	A (%)
Bray, Ontario, Canada	Bray WPR #2	7.8	7.8	2.33	2.44	2.32	3.39	4.13	96.0
Bray, Ontario, Canada	Indian River #4 x WPR	0.6	0.6	2.35	2.47	2.32	3.62	4.32	99.3
Bray, Ontario, Canada	Peterson x Bray WPR	0.9	1.7	2.27	2.40	2.28	3.34	4.02	97.1
Cobb's, Massachusetts, USA	Cobb's WPR	0.0	0.0	2.30	2.43	2.28	3.58	4.28	94.3
Hubbard, New Hampshire, USA	Vantrass x Hubbard #39	2.4	2.4	2.33	2.42	2.33	3.45	4.23	94.0
Peel, Ontario, Canada	Peel Cornish x 132 A	3.4	3.8	2.37	2.46	2.35	3.46	4.08	97.8
Pilch's, Connecticut, USA	Vantrass x Pilch's WPR	0.5	0.5	2.25	2.34	2.24	3.61	4.40	96.2
AVERAGE FOR COMMERCIAL ENTRIES:									
		2.2	2.4	2.31	2.42	2.30	3.51	4.21	96.4
EXPERIMENTAL ENTRIES:									
Ottawa Meat Control ***									
1	Experimental	0.9	1.7	2.37	2.51	2.58	2.62	3.13	91.5
2	Experimental	1.7	2.9	2.28	2.40	2.23	3.78	4.52	95.7
3	Experimental	6.9	7.4	2.32	2.45	2.29	3.60	4.37	95.5
4	Experimental	1.6	1.6	2.39	2.46	2.38	3.56	4.34	93.4
5	Experimental	1.7	1.7	2.28	2.37	2.23	3.63	4.33	97.1
6	Experimental	1.8	2.3	2.34	2.44	2.32	3.54	4.24	99.6
7	Experimental	0.8	1.7	2.30	2.43	2.26	3.54	4.23	96.0
8	Experimental	3.0	3.0	2.34	2.43	2.31	3.53	4.21	97.8
9	Experimental	3.8	3.8	2.27	2.41	2.25	3.53	4.19	93.8
10	Experimental	0.9	1.3	2.27	2.37	2.26	3.47	4.18	97.8
11	Experimental	1.7	2.2	2.32	2.43	2.33	3.45	4.17	99.1
12	Experimental	0.0	0.8	2.26	2.37	2.28	3.39	4.06	96.3
13	Experimental	0.4	0.4	2.32	2.40	2.32	3.33	4.05	96.2
14	Experimental	2.9	2.9	2.26	2.38	2.27	3.36	4.05	85.4
15	Experimental	1.3	1.3	2.31	2.42	2.32	3.33	4.03	94.9
16	Experimental	1.2	1.2	2.30	2.42	2.28	3.41	4.03	98.7
17	Experimental	1.6	1.6	2.28	2.41	2.29	3.39	4.03	100.0
18	Experimental	0.0	0.0	2.35	2.46	2.35	3.31	4.61	86.2
19	Experimental	1.6	2.2	2.31	2.43	2.32	3.30	3.96	94.3
20	Experimental	0.0	0.0	2.29	2.39	2.30	3.28	3.91	96.6
21	Experimental	3.7	4.5	2.37	2.55	2.39	3.26	3.88	90.7
22	Experimental	1.5	1.9	2.36	2.48	2.39	3.19	3.85	86.3
	Experimental	2.1	2.6	2.34	2.49	2.36	3.27	3.81	91.7
AVERAGE FOR EXPERIMENTAL ENTRIES:									
		1.8	2.2	2.31	2.43	2.31	3.43	4.11	94.7

* Pounds of feed required to produce a pound of live weight. The calculated figure represents the pounds of feed required to produce each pound of live weight when the bird weighed 3 pounds.

*** Data not included in average of experimental entries.

TWELFTH CENTRAL CANADIAN MEAT TEST
November 6, 1962 to January 8, 1963

ENTRANT	BREEDS	Mortality		Feed Conversion *		Body Weight 8 Weeks		Body Weight 9 Weeks	
		8 Wks.	9 Wks.	8 Wks.	9 Wks.	Male	Female	Male	Female
		(%)	(%)	(lbs.)	(lbs.)	(lbs.)	(lbs.)	(lbs.)	(lbs.)
Bray, Ontario, Canada Cobb's, Massachusetts, USA Peel, Ontario, Canada Peel, Ontario, Canada Pilch's, Connecticut, USA Seiling, Ontario, Canada Seiling, Ontario, Canada	Bray 4449 x Bray WPR	4.5	5.0	2.34	2.45	3.58	2.94	4.00	3.25
	Cobb's WPR	4.2	6.2	2.37	2.49	3.85	3.16	4.42	3.49
	Peel Cornish x Peel 132A	1.6	2.5	2.30	2.44	3.74	3.08	4.12	3.31
	Peel 799 x Peel 132A	4.6	5.8	2.32	2.41	3.81	3.13	4.39	3.49
	LedBrest x Pilch's WPR	4.2	4.2	2.32	2.41	3.69	3.08	4.14	3.45
	Seiling 200 x Seiling WPR	3.8	4.6	2.37	2.48	3.35	2.99	3.85	3.28
	Seiling 400 x Seiling WPR	5.4	5.9	2.33	2.36	3.41	2.81	3.91	3.10
	AVERAGE FOR COMMERCIAL ENTRIES:	4.0	4.9	2.34	2.43	3.63	3.03	4.12	3.34
	EXPERIMENTAL ENTRIES:								
	Ottawa Meat Control ***								
1	Experimental	0.0	0.8	2.36	2.48	2.50	2.52	2.86	2.86
2	Experimental	7.8	8.3	2.35	2.43	3.93	2.26	4.51	3.67
3	Experimental	0.8	1.3	2.28	2.40	3.78	2.11	4.22	3.41
4	Experimental	2.8	3.2	2.28	2.40	3.68	2.19	4.16	3.41
5	Experimental	1.3	1.3	2.27	2.38	3.65	2.23	4.15	3.31
6	Experimental	2.5	2.9	2.31	2.44	3.71	2.14	4.08	3.37
7	Experimental	4.1	4.9	2.28	2.42	3.70	2.13	4.08	3.44
8	Experimental	1.3	2.5	2.28	2.42	3.63	2.18	4.06	3.23
9	Experimental	1.7	2.1	2.28	2.42	3.55	2.21	4.05	3.26
10	Experimental	1.7	2.2	2.29	2.41	3.60	2.21	4.04	3.29
11	Experimental	1.3	1.7	2.21	2.34	3.47	2.15	3.95	3.23
12	Experimental	4.2	5.0	2.36	2.46	3.32	2.38	3.80	2.88
13	Experimental	5.2	6.1	2.31	2.41	3.36	2.28	3.79	3.25
14	Experimental	2.1	2.9	2.34	2.47	3.37	2.29	3.78	3.12
15	Experimental	2.8	5.2	2.33	2.49	3.33	2.24	3.75	2.94
16 ***	Experimental	3.3	3.3	2.36	2.44	3.22	2.37	3.74	3.09
17	Experimental	0.0	0.9	2.29	2.41	2.98	2.29	3.44	2.93
		3.7	4.2	2.43	2.52	2.88	2.48	3.26	
	AVERAGE FOR EXPERIMENTAL ENTRIES:	2.9	3.6	2.31	2.43	3.51	2.24	3.96	3.24

* Pounds of feed required to produce a pound of live weight. The calculated figure represents the pounds of feed required to produce each pound of live weight when the birds weighed 3 pounds.
*** Males only. Data not included in average of experimental entries.

SIXTEENTH MAINE PRODUCTION AND BROILER TEST
1961-62

PERFORMANCE OF PROGENY - SUMMARY OF THREE HATCHES

ENTRANT	BREEDS	Livability (%)	Live Weight at 8 Weeks			Feed Conversion at 8 Weeks		Grade A & AA by weight (%)	Eviscerated Yield	
			Male (lbs.)	Female (lbs.)	Combined (lbs.)	Male (lbs.)	Female (lbs.)		Male (%)	Female (%)
Pilch's, Connecticut	Brown's LedBrest x Pilch's WPR	97.0	4.69	3.81	4.25	2.00	2.11	82.9	70.8	72.4
Cobb's, Massachusetts	Cobb's WPR	95.6	4.46	3.55	4.00	2.04	2.15	96.0	71.4	72.3
Arbor Acres, Connecticut	Strain Cross Vantress x Arbor Acres WPR	96.3	4.51	3.59	4.05	1.96	2.06	96.0	72.7	73.6
Brown's, Arkansas	Brown's LedBrest x Cobb's WPR	98.9	4.43	3.53	3.99	1.95	2.06	92.7	71.3	71.9
White, Maine	Vantress x Arbor Acres #50	98.9	4.62	3.76	4.19	1.98	2.06	91.3	72.5	73.6
Clements, Maine	Hubbard White Mt. x Pilch's WPR	97.8	4.70	3.75	4.23	1.93	2.02	93.3	72.4	73.1
Penobscot, Maine	Penobscot M #1 x Arbor Acres #50	98.1	4.56	3.68	4.12	2.00	2.06	96.5	73.2	72.4
Penobscot, Maine	Penobscot M #1 x Penobscot #31	97.8	4.40	3.51	3.96	1.97	2.05	95.0	72.1	73.8
Hubbard, New Hampshire	Hubbard White Mt. x Hubbard #39	95.6	4.69	3.76	4.23	1.97	2.06	92.3	71.5	73.2
Hubbard, New Hampshire	Hubbard White Mt. x Hubbard 663	97.8	4.63	3.68	4.16	1.94	2.05	91.0	70.4	72.0
Ft. Halifax, Maine	Peterson x Arbor Acres #50	98.9	4.53	3.63	4.09	1.94	2.02	95.3	73.1	72.8
Moore, Pennsylvania	Moore x Pilch's WPR	98.5	4.39	3.50	3.95	1.98	2.06	89.2	72.5	72.0
Pilch's, Connecticut	Peterson x Pilch's WPR	98.1	4.49	3.55	4.02	1.94	2.04	95.4	72.5	73.0
Hillcrest, Maine	Indian River x Pilch's WPR	96.3	4.47	3.56	4.02	1.95	2.10	97.8	74.4	71.0
Nichols, Maine	Vantress x Nichols 108	99.3	4.52	3.71	4.12	2.01	2.08	89.5	72.1	72.3
Nichols, Maine	Peterson x Nichols 108	99.6	4.48	3.61	4.05	1.98	2.11	83.9	73.3	71.9
Nichols, Maine	Brown's LedBrest x Nichols 108	97.8	4.57	3.69	4.13	1.97	2.10	84.5	72.7	72.2
Bacheller, Maine	Hubbard White Mt. x Cobb's WPR	95.9	4.67	3.79	4.23	2.01	2.07	95.2	72.5	72.9
Edgewood's, Maine	Vantress x Hubbard #39	97.4	4.56	3.75	4.16	1.97	2.09	93.5	73.0	72.3
Clements, Maine	Vantress x Pilch's WPR	97.8	4.53	3.63	4.08	1.98	2.07	95.1	73.2	72.9
AVERAGE		97.7	4.54	3.65	4.10	1.97	2.07	92.2	72.4	72.6

SIXTEENTH MAINE PRODUCTION AND BROILER TEST
1961-62

PERFORMANCE OF PARENT STOCK

ENTRANT	BREEDS	Livability (Hens) (%)	Egg Production 10/1/61 to 7/1/62		Hatching Eggs (%)	Fertility (%)	Hatchability (%)
			(No.)	(%)			
Pilch's, Connecticut	Brown's LedBrest x Pilch's WPR	92.0	6741	49.4	83.6	76.8	71.4
Cobb's, Massachusetts	Cobb's WPR Strain Cross	90.0	7453	54.6	87.8	94.6	86.6
Arbor Acres, Connecticut	Vantress x Arbor Acres WPR	98.0	7294	53.4	78.0	89.6	82.9
Browns, Arkansas	Brown's LedBrest x Cobb's WPR	82.0	5754	42.2	82.5	75.1	63.4
White's, Maine	Vantress x Arbor Acres #50	100.0	7081	51.9	88.5	90.3	85.9
Clements, Maine	White Mts. x Pilch's WPR	92.0	6573	48.2	83.2	83.6	79.8
Penobscot, Maine	Penobscot M #1 x Arbor Acres #50	92.0	6967	51.0	88.4	86.4	82.5
Penobscot, Maine	Penobscot M #1 x Penobscot #31	96.0	7275	53.3	83.8	92.4	87.4
Hubbard, New Hampshire	Hubbard White Mts. x Hubbard #39	86.0	5484	40.2	79.3	86.1	73.5
Hubbard, New Hampshire	Hubbard White Mts. x Hubbard #663	86.0	7716	56.5	79.8	88.5	84.2
Fort Halifax, Maine	Peterson x Arbor Acres #50	94.0	7265	53.2	84.9	79.2	72.7
Moore, Pennsylvania	Moore x Pilch's WPR	88.0	6164	45.2	82.4	82.5	74.8
Pilch's, Connecticut	Peterson x Pilch's WPR	86.0	6719	49.2	81.7	71.4	65.7
Hillcrest, Maine	Indian River x Pilch's WPR	90.0	6817	49.9	82.2	88.1	85.5
Nichols, Maine	Vantress x Nichols 108	88.0	4844	35.5	91.9	77.9	71.0
Nichols, Maine	Peterson x Nichols 108	90.0	7170	52.5	85.2	73.3	67.9
Nichols, Maine	Brown's LedBrest x Nichols 108	90.0	6550	48.0	87.0	79.8	75.7
Bacheller, Maine	Hubbard White Mts. x Cobb's WPR	92.0	7269	53.3	83.0	84.0	73.3
Edgecomb, Maine	Vantress x Hubbard #39	92.0	7967	58.4	82.2	87.4	78.7
Clements, Maine	Vantress x Pilch's WPR	96.0	6964	51.0	82.5	89.8	83.5
	AVERAGE	91.0	6803	49.8	83.9	83.8	77.3

NEW HAMPSHIRE BROILER TEST - COMBINED SUMMARY FOR TEST I

AVERAGE OF TRIAL I AND TRIAL II - July 17, 1962

ENTRANT	BREEDS	8 Week Combined Weight (lbs.)	9 Week Weights			Feed Conversion *			Mortality (%)	Grade A & AA (%)
			Combined (lbs.)	Male (lbs.)	Female (lbs.)	8 Wks. (lbs.)	9 Wks. (lbs.)	Calculated to 3 Lbs. (lbs.)		
Hubbard, ** New Hampshire Cobb's, Massachusetts Brown's, Arkansas Coll, New Hampshire Middle Ridge, Ohio Nichols, New Hampshire Garrison, New Jersey Hardy, New Hampshire	Hubbard White Mountains Cobb's WPR Strain Cross Brown's LedBrest x Cobb's WPR Coll's WPR Arbee x Cobb's WPR Vantress x Nichols 108 Garrison Cornish Cross Vantress x Arbor Acres #50	3.42 3.59 3.46 2.90 3.55 3.66 3.49 3.14 3.40	4.03 4.20 4.09 3.45 4.01 4.32 4.05 3.72 3.98	4.54 4.47 4.58 3.87 4.49 4.80 4.51 4.17 4.46	3.51 3.65 3.59 3.03 3.51 3.83 3.59 3.27 3.50	2.05 2.10 2.06 2.10 2.04 2.05 2.05 2.06 2.06	2.16 2.20 2.18 2.19 2.16 2.16 2.17 2.17 2.17	1.96 2.00 1.96 2.11 1.96 1.90 1.92 2.03 1.98	7.7 2.0 2.5 1.1 2.0 4.2 1.8 2.1 2.9	91.3 90.9 83.4 89.0 91.2 82.6 91.8 92.8 89.1
AVERAGE FOR COMMERCIAL ENTRIES:										
EXPERIMENTAL ENTRIES:										
Pilch's, Connecticut Cobb's, Massachusetts Hubbard, New Hampshire Coll, New Hampshire Pilch's, Connecticut Peel, Ontario, Canada Pilch's, Connecticut Cobb's, Massachusetts	Experimental #1 Experimental Cross #1 New White Mountains Experimental Cross Experimental Cross #2 Experimental Cross Experimental Cross #3 Experimental Cross #2	3.31 3.44 3.95 3.06 3.38 3.29 3.46 3.53 3.43	3.87 4.04 4.59 3.63 3.98 3.86 3.98 4.14 4.01	4.35 4.57 5.16 4.07 4.51 4.34 4.48 4.65 4.52	3.39 3.50 4.01 3.19 3.44 3.38 3.47 3.63 3.50	2.12 2.11 2.05 2.10 2.09 2.06 2.08 2.10 2.09	2.20 2.22 2.17 2.21 2.19 2.18 2.20 2.22 2.20	2.07 2.02 1.83 2.09 2.02 2.01 1.95 1.97 2.00	3.6 1.9 2.9 1.8 0.9 3.3 2.7 1.8 2.4	87.0 90.9 84.6 93.1 91.3 90.5 88.6 90.1 89.5
AVERAGE FOR EXPERIMENTAL ENTRIES:										

* Pounds of feed required to produce a pound of live weight. The calculated figure represents the pounds of feed required to produce each pound of live weight when the birds weighed 3 pounds.
 ** This entry in Trial II was infected with avian encephalomyetis.

NEW HAMPSHIRE BROILER TEST - COMBINED SUMMARY FOR TEST II

AVERAGE OF TRIAL I AND TRIAL II - January 8, 1963

ENTRANT	BREEDS	8 Week Combined Weight (lbs.)	9 Week Weights		Feed Conversion *			Mortality (%)	Grade A & AA (%)
			Combined (lbs.)	Male (lbs.)	Female (lbs.)	8 Wks. (lbs.)	9 Wks. (lbs.)	Calculated to 3 Lbs. (lbs.)	
Hubbard, New Hampshire Cobb's, Massachusetts Brown's, Arkansas Coll, New Hampshire Nichols, New Hampshire Garrison, New Jersey Hardy, New Hampshire	Hubbard White Mountains Cobb's WPR Strain Cross Brown's LedBrest x Cobb's WPR Coll's WPR Nichols 909 x Nichols 205 Garrison Cornish Cross Vantress x Arbor Acres #50	3.43 3.52 3.54 2.81 3.54 3.34 2.99 3.31	4.04 4.17 4.17 3.37 4.18 3.98 3.61 3.93	4.52 4.65 4.64 3.78 4.62 4.45 4.02 4.38	3.55 3.68 3.70 2.95 3.73 3.50 3.20 3.47	2.04 2.08 2.05 2.08 2.08 2.08 2.08 2.07	2.17 2.21 2.21 2.21 2.22 2.22 2.20 2.21	1.91 1.96 1.88 2.13 1.94 1.99 2.09 1.99	2.1 3.2 2.1 2.5 2.5 2.7 3.2 2.6
AVERAGE FOR COMMERCIAL ENTRIES									
EXPERIMENTAL ENTRIES:									
Pilch's, Connecticut Cobb's, Massachusetts Hubbard, New Hampshire Pilch's, Connecticut Peel, Ontario, Canada Pilch's, Connecticut Cobb's, Massachusetts	Experimental #1 Experimental Cross #1 Experimental A Experimental Cross #2 Experimental Cross Experimental Cross #3 Experimental Cross #2	3.31 3.48 3.71 3.37 3.43 3.38 3.48	3.91 4.10 4.36 3.96 4.09 3.99 4.12	4.34 4.57 4.87 4.46 4.53 4.48 4.63	3.49 3.62 3.85 3.46 3.64 3.49 3.61	2.11 2.08 2.06 2.08 2.05 2.10 2.09	2.24 2.22 2.21 2.22 2.19 2.24 2.23	2.04 1.92 1.86 1.95 1.95 2.00 1.97	4.9 2.2 5.4 3.7 3.1 3.1 3.1
AVERAGE FOR EXPERIMENTAL ENTRIES:									
		3.45	4.08	4.55	3.59	2.08	2.22	1.96	3.6

* Pounds of feed required to produce a pound of live weight. The calculated figure represents the pounds of feed required to produce each pound of live weight when the birds weighed 3 pounds.

Names and Addresses of Entrants in 1961-62 Chicken Meat Production Tests

Arbor Acres Farm, Inc., Marlborough Road, Glastonbury, Connecticut
Bacheller, Chester D., Steep Falls, Maine
Bray Chicks Ltd., 120 John Street N., Hamilton, Ontario, Canada
Brown's LedBrest, Inc., P. O. Box 128, Springdale, Arkansas
Centennial Hatchery, Box 340, Hammond, British Columbia, Canada
Clements Chicks, Inc., Winterport, Maine
Cobb's Pedigreed Chicks, Inc., Concord, Massachusetts
Colls Poultry Farm, Jaffrey, New Hampshire
Edgecomb's Hatchery, Steep Falls, Maine
Fort Halifax Poultry Co., Route 3, Box 90, Waterville, Maine
Garrison, Earl W., Inc., Route 3, Bridgeton, New Jersey
Green Hill Farms, Independence, Louisiana
Hardy's Poultry Farm, Derry Road, Chester, New Hampshire
Hillcrest Hatchery, Inc., Mt. Battie Street, Camden, Maine
Hubbard Farms, Inc., Walpole, New Hampshire
Lambright Hatchery, LaGrange, Indiana
Middle Ridge Hatchery, Madison, Ohio
Moore Farms, Inc., 780 Eden Road, Lancaster, Pennsylvania
Nichols Poultry Farm, Inc., Brunswick, Maine
Pacific Hatchery, 7466 King George Highway, North Surrey, British Columbia, Canada
Peel Poultry Farm, Port Perry, Ontario, Canada
Penobscot Poultry Co., Inc., Belfast, Maine
Peterson Breeding Farm, P. O. Box 248, Decatur, Arkansas
Pilch Poultry Farms, Inc., 26 Moody Road, Hazardville, Connecticut
Ray, Joe, Company, Danville, Arkansas
Seiling Poultry Farm, Elmira, Ontario, Canada
Thompson, A. W., Inc., Hoschton, Georgia
Thompson, J. N. Assoc., Inc., Russellville, Arkansas
University of Arkansas, Fayetteville, Arkansas
White's Poultry Farm and Hatchery, Skowhegan, Maine

